

This listing of claims will replace all prior versions, and listings, of claims in the application:

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Listing of Claims:

Claims 1-17 (Canceled)

Claim 18 (Currently Amended): A- An implantable vascular filter, comprising:
an expandable filter body having a substantially conical shape, the filter body
configured to be implanted in secured to an inner wall of a blood vessel; and
an agitation member movably coupled to the filter body;
wherein the vascular filter is detachable from a delivery catheter for implantation
in the blood vessel and wherein the agitation member is adapted to break apart particles
captured within the filter body.

Claim 19 (Previously Presented): The vascular filter of claim 18, wherein the agitation member is located substantially within an interior volume of the filter body.

Claim 20 (Currently Amended): The vascular filter of claim 18, further comprising a flow-receiving member coupled to the agitation member, wherein the flow receiving member is
shaped to be powered by the flow of blood through the blood vessel for causing the agitation member to rotate relative to the filter body.

Claim 21 (Previously Presented): The vascular filter of claim 20, wherein the agitation member is configured to reverse direction.

Claim 22 (Currently Amended): The vascular filter of claim 18, further comprising an elongate drive mechanism configured for removable attachment to the agitation member,
wherein the agitation member is adapted to be powered by the elongate drive mechanism for causing the agitation member to rotate.

Claim 23 (Previously Presented): The vascular filter of claim 18, further comprising a clutch mechanism such that the agitation member moves relative to the filter body only when a particle is trapped within the filter body.

Claim 24 (Currently Amended): The vascular filter of claim 18, further comprising an implantable energy storage device coupled to the filter body for causing the agitation member to rotate.

Claim 25 (Previously Presented): The vascular filter of claim 24, further comprising an electronic sensor for detecting the presence of particles within the filter body.

Claim 26 (Previously Presented): The vascular filter of claim 18, wherein the agitation member is configured to vibrate for breaking apart the particle.

Claim 27 (Previously Presented): The vascular filter of claim 26, wherein the agitation member vibrates at ultrasonic frequencies.

Claim 28 (Currently Amended): The vascular filter of claim 27, further comprising an energy storage device a battery coupled to the filter body for producing movement of supplying power to the agitation member.

Claim 29 (Previously Presented): The vascular filter of claim 18, wherein the agitation member emits a pressurized fluid flow.

Claim 30 (Previously Presented): The vascular filter of claim 18, further comprising an aspiration catheter for aspirating particles.

Claim 31 (Currently Amended): An implantable device configured to capture and macerate emboli within a blood vessel, comprising:

an expandable filter body having anchoring members for engaging an inner wall of configured to be implanted in a blood vessel;

an agitation member located substantially within an interior volume of the filter body; and

a drive mechanism for rotating the agitation member with respect to the filter body;

wherein the filter body is detachable from a delivery catheter for fixation in the blood vessel and wherein the agitation member is configured to macerate emboli captured within the filter body.

Claim 32 (Currently Amended): The implantable device of claim 31, wherein the drive mechanism comprises an impeller a flow receiving member configured to be rotated by blood flowing through the blood vessel.

Claim 33 (Previously Presented): The implantable device of claim 31, wherein the drive mechanism comprises an elongate drive catheter coupled to the agitation member.

Claim 34 (Previously Presented): The implantable device of claim 33, further comprising an aspiration catheter configured for advancement along the elongate drive catheter.

Claim 35 (Previously Presented): The implantable device of claim 31, wherein the drive mechanism comprises an energy storage device coupled to the agitation member.

Claim 36 (Currently Amended): A device configured to improve blood flow through a blood vessel, comprising:

an expandable filter body disposed along the distal end portion of an outer catheter, the filter body configured to engage an inner wall of a blood vessel capture and hold embolic particles;

an agitation member disposed along the distal end portion of an inner catheter, the agitation member being rotatably coupled to the filter body; and

a drive mechanism for rotating the agitation member with respect to the filter body;

an aspiration catheter sized for slidable advancement over the outer catheter, the aspiration catheter configured for drawing particles into the filter body;

wherein the agitation member is advanceable relative to the filter body for breaking apart occlusive material within the blood vessel and wherein the filter body is configured to capture particles of the occlusive material collapse into the aspiration catheter for removing the captured particles from the blood vessel.

Claim 37 (Canceled)